

ABSTRACT

A method and apparatus are presented for messaging within a plurality of nodes **100**, wherein each node **100** includes a processor **208**, a memory **210** connected with the processor **208**, and a directional communication interface **204** connected with the processor **208**. The nodes **100** are operative for receiving a message including an address code with a relative target address of an intended recipient node **106**; for processing the address code to determine if the current node **100** is the intended recipient node **106**; for modifying the message based on the direction from which the message was received and is to be transmitted; and for re-transmitting the message including a modified address code. The nodes **100** each repeat these actions to propagate a message along multiple paths until the message reaches a desired recipient, thereby providing path redundancy without the need for the use of unique node **100** identities or locations.